

Title (en)

ORGANIC PHOTODIODE AND METHOD FOR PRODUCING IT

Title (de)

ORGANISCHE PHOTODIODE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

PHOTODIODE ORGANIQUE ET PROCÉDÉ POUR SA FABRICATION

Publication

EP 2067188 A1 20090610 (DE)

Application

EP 07765356 A 20070611

Priority

- EP 2007055709 W 20070611
- DE 102006046210 A 20060929

Abstract (en)

[origin: DE102006046210A1] The photo-detector has an organic photoactive layer as a bulk-heterojunction-blend between two electrodes. The concentrations of components of the bulk-heterojunction-blend are changed in a direction of distances of the electrodes in such a manner that a high concentration of hole transporting components exists close to an anode and a high concentration of electrodes transporting components exists close to a cathode. An auxiliary electrodes blocking layer is directly attached on the anode. An independent claim is also included for a method of manufacturing an organic photo-detector.

IPC 8 full level

H01L 51/42 (2006.01)

CPC (source: EP)

B82Y 10/00 (2013.01); **H10K 30/30** (2023.02); **H10K 30/50** (2023.02); **H10K 85/113** (2023.02); **H10K 85/215** (2023.02); **Y02E 10/549** (2013.01)

Citation (examination)

- US 2005217722 A1 20051006 - KOMATSU TAKAHIRO [JP], et al
- US 2005263183 A1 20051201 - NISHIKITANI YOSHINORI [JP], et al
- See also references of WO 2008040571A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

DE 102006046210 A1 20080403; **DE 102006046210 B4 20130328**; EP 2067188 A1 20090610; WO 2008040571 A1 20080410

DOCDB simple family (application)

DE 102006046210 A 20060929; EP 07765356 A 20070611; EP 2007055709 W 20070611